KASSU JOINT EVALUATION TEST
JUNE 2010-07-05 GEOGRAPHY
PAPER1

2 ¾ HOURS

This paper two sections: A and B
Answer all the question A. in section B answer question 6 and any other two question
All answers must be written in the answer booklet provided.

1. a) State any two forces responsible for the shape of the earth. (2mks)
   b) (i) State Two characteristics of the inner core (2mks)
   (ii) Give Two reasons why the interior of the earth is still hot. (2mks)
2. a) Study the diagram below and use it to answer the questions that follow.
   i) Name the parts marked P and Q. (2mks)
   ii) Describe two characteristics of the part marked P. (2mks)
   b) State two factors that determine the amount of solar radiation reaching the earth's surface (2mks)
3. a) Name one example of fault blocks outside East Africa (1mk)
   b) Outline two drainage features of faulting (2mks)
4. The diagram below shows features along a section of a river profile.
   a) i) Name the features marked X and Y
   ii) Give two conditions facilitating the formation of an Ox-bow lake. (2mks)
   b) State Two differences between rias and fiords (2mks)
5. a) Outline Two ways in which plants cause weathering. (2mks)
   b) Describe freeze and thaw as a process of physical weathering.

SECTION B

6. Study the map of Belgut 1: 50000 (sheet 117/3) provided and answer the following questions.

   a)

   i) What is the six figure grid reference of the peak of Sikowon hill in the Northwest area covered the map? (1mk)

   ii) Name two natural features in the grid square 2355. (2mks)

   iii) What is the bearing of the Posho Mill in grid square 4255 from the M.O.W. camp in grid square 3957 (2mks)

   iv) What is the position by latitude and longitude of Masabet in the East of the area covered by the map? (2mks)

   v) Calculate gradient of the rpad C22 from Ikonge and Sotik to the junction of Kendu and Kissi road. (2mks)
   Show calculations

   b)

   i) Draw a cross section from grid reference 230520 to grid reference 290550, using a vertical scale of 1cm rep 40m. (3mks)
   On the cross-section, mark and name:-
   The hill west of river Sondu (1mk)
   River Sondu
   All weather road, loose surface D226 (1mk)

   ii) Calculate the vertical exaggeration of your cross-section. (mk)

   c) Explain how the following factors have influenced the distribution of settlement in the area covered by the map.
   i) Relief (2mks)
   ii) Drainage (2mks)
   iii) Plantation farming (2mks)

d) Citing evidence from the map, name three social activities carried out in the area covered by the map. (3mks)

7 a) i) Give two examples of rocks formed from volcanic ejecta. (2mks)

ii) Explain how metamorphic rocks are formed by

a) Heat (2mks)

b) Pressure (2mks)

b) i) Distinguish between a hot spring and a geyser. (1mk)

ii) Describe the formation of a geyser (5 mks)

iii) Define the word dormant volcano and identify 2 examples of the same. (3mks)

c) Explain four ways in which volcanicity has influenced human activities in Kenya. (4mks)

d) You have been asked to carry out a field study on a volcanic landscape

i) Give two ways in which you would establish a conducive environment for an interview as a method of collecting data. (2mks)

ii) How would you use quadrants as a method of sampling. (2mks)

iii) State two follow-up activities you carried out. (2mks)

8. a) Name two classification of deserts according to their location. (2mks)

b) State four reasons why wind is active in hot deserts (3mks)

c) With the aid of well labeled diagrams, describe the formation of a barchan. (8marks)

d) i) Outline three main factors that contribute to soil leaching. (3 mks)

ii) Explain how the following factors influence the formation of soil (4 mks)

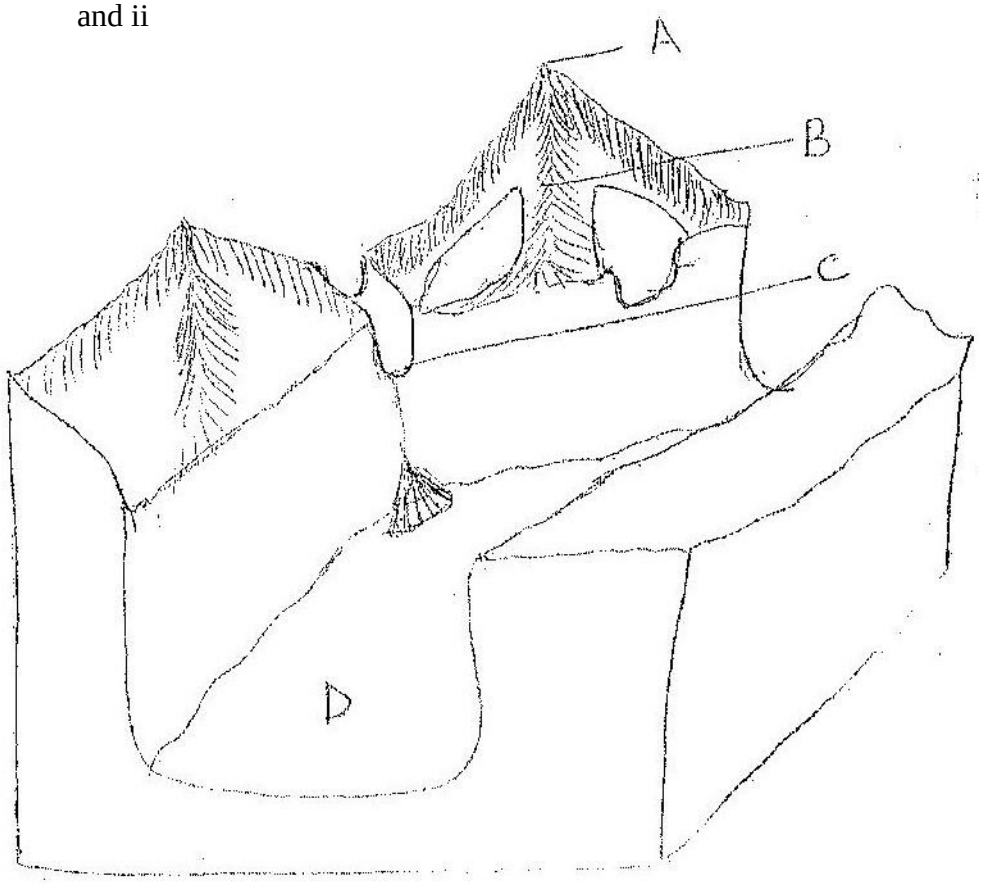
- Nature of parent rock
- Topography

iii) Explain two ways in which vegetation helps to control soil erosion. (4mks)

9. a) i) Outline three processes through which ice moves. (3mks)

b) Explain three factors that influence galacial erosion. (6 mks)

c) Study the diagram below which shows a glaciated highland and answer questions c I and ii



i) Name the features marked A, B, C and D. (4mks)

ii) Describe how features A and D were formed. (6 mks)

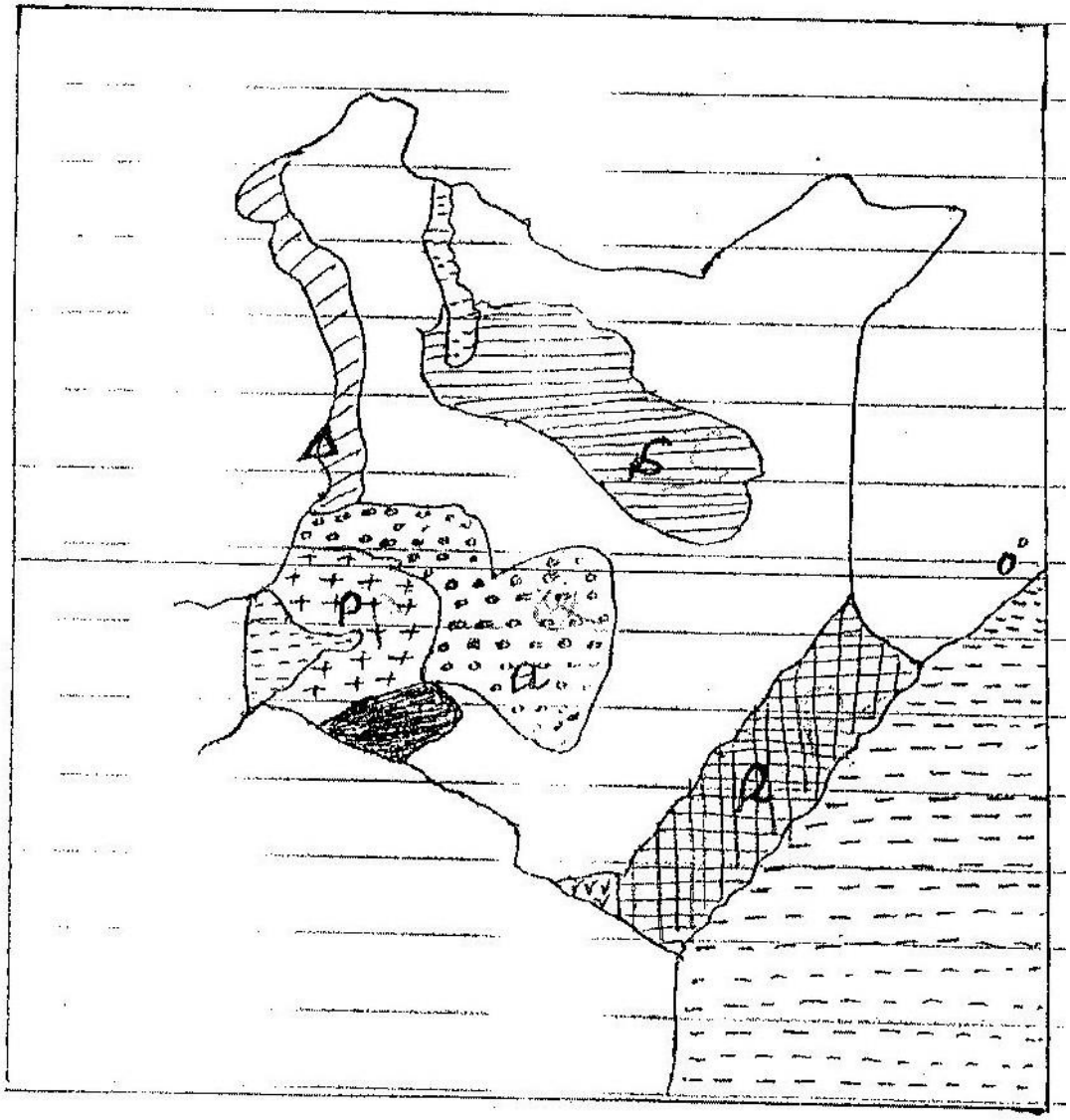
d) Suppose you were to carry out a field study of a glaciated highland:-

i) State two disadvantages of using observation as a method of data collection. (2mks)

ii) State two problems you are likely to encounter. (2mks)

iii) Suggest two economic activities you would recommend to the Government in this area (2mks)

10. Study the map of Kenya below and use it to answer questions (a) and (b)



a) Name the type of climate found in the shaded areas marked P, Q and S (3mks)

b) Describe the climatic conditions experienced in the shaded region marked Q (6mks)

c) i) What is climate change. (2mks)

ii) Explain three physiographic factors influencing vegetation distribution in Kenya (3mks)

d) State three physiographic factors influencing vegetation distribution in Kenya (3mks)

e) Geography students from your school carried out a field study on vegetation on Mau forest

i) State three characteristics of vegetation the students are likely to study (3mks)

ii) State two problems facing Mau forest students are likely to identify (2mks)